



- NOTES**
- 1-CONCRETE for poured units shall be 560-D-3250.
  - 2-JOINTS shall be filled with cement mortar and neatly pointed or wiped on inside of shaft.
  - 3-COLLAR of cement mortar around cover frame shall be omitted in rock and oil streets and in paved streets.
  - 4-CONCRETE RINGS shall be of the dimensions shown and reinforced as shown hereon.
  - 5-STEPS shall be 3/4" round galvanized steel. Top step shall be placed directly beneath the manhole cover from with legs extending into wall of shaft on radial lines. Width of all steps shall be 1'2" between leg centers. Except where shown otherwise, spacing of steps in shaft shall be 1'5" between centers. (Alhambra Fdy. A-3320 or equal app. by City.)
  - 6-CENTRIFUGALLY SPUN UNITS may be used at the option of the contractor, conforming to specifications for Centrifugal Concrete Pipe and to Detail C on Sheet 2.
  - 7-LENGTH of sections of 36" R.C.P. for manhole shaft may be 1'0", 2'0", 3'0", or 4'0" at the option of the contractor.
  - 8-COVER shall have letter D in center.

APPROVED: *Robert C. Wells* DATE *7/17/78*  
 PUBLIC WORKS DIRECTOR - R.C.E. 18793

1	defined approval	B.L.R.	4-7-82
2	Changed Riverside Fdy to Alhambra	W.D.	7-7-82
MARK	REVISIONS	APPR.	DATE

**CITY OF RIVERSIDE**  
**PUBLIC WORKS DEPT. - ENGINEERING DIV.**  
**CONCRETE RINGS, REDUCER,**  
**& PIPE FOR MANHOLE SHAFT**

**STANDARD DRAWING NO. 451**

Sheet 1 of 2

